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which is regarded as a sub-order of Thysanura, while the recent views of Semper and Moseley as to the formation of coral reefs are briefly referred to. The index has been altered to correspond with changes in the text.

VERRILL'S CEPHALOPODS OF THE NORTHEASTERN COAST OF AMERICA¹.—This is a memoir of 267 pages, with 44 plates, upon the species of Cephalopods which have been collected upon the Atlantic coast of the United States, mostly within a few years, by the United States Fish Commission and the United States Coast Survey. It is a monographic account of these animals, accompanied by most excellent plates from drawings by Mr. Emerton. While the bulk of the work is devoted to careful descriptions of the species, the gross anatomy of a number is given and illustrated, and the habits of some of the common species described. Besides the descriptions of gigantic squids and the excellent drawings illustrating them, the point of most interest brought out by the author is the description of the cone discovered by Mr. W. H. Dall in *Moroteuthis robusta* Verrill. It is figured on Pl. XXIII, and thus described by Professor Verrill: "This genus will have, as known characters: A long, narrow, thin pen, terminating posteriorly in a conical, hollow, many-ribbed, oblique cone, which is inserted into the oblique, anterior end of a long, round, tapering, acute, *solid*, cartilaginous terminal cone, composed of concentric layers and corresponding to the solid cone of *Belemnites* in position and relation to the true pen."

This is a most interesting discovery, for we are now able to understand the relation of the cones described as *Belemnites*, which have usually been homologized with the pen or bone of cuttle-fishes. The *Moroteuthis* is a gigantic calamary, but the ordinary *Belemnites* may have been closely related in form to our hooked calamary, and a cone three inches long may have been worn by individuals not over two feet long, and not differing essentially in form from our common *Ommastrephes*. The cone is present or absent apparently in quite closely allied forms. We wish the author had made a little more of a subject of so much palæontological interest.

RECENT BOOKS AND PAMPHLETS.—Allgemeine Zoologie oder Grundgesetze des thierischen Baus und Lebens. Von H. Alexander Pagenstecher. Vierter Theil. mit 414 Holzschnitten. 8vo, pp. 999, cuts. Berlin, 1881. From the author.

Beiträge zur Kenntniss der Fische Afrikas und Beschreibung einer neuen Sargus-Art von Den Galapagos-Inseln. Von Dr. Franz Steindachner. Aus dem XLIV Bande der Denkschriften der Kais. Akad. der Wissenschaften. 4to, pp. 42, 10 plates. Wien, 1881. From the author.

Ueber *Plicatocrinus fraasi* aus dem oberen Weisser Jura von Nusplingen in Württemberg. Von Dr. K. A. Zittel, K. Bayerischen Akad. 8vo, pp. 12, 2 plates. München, 1882. From the author.

¹ *The Cephalopods of the Northeastern Coast of America.* Parts I, II, 1879–1881. From the Trans. Connecticut Academy of Sciences, Vol. v.

L'ontologie ou La Science de L'étré démonstration Scientifique de la Vie eter-nelle. Par J. Jolival. G. Fischbacher, editeur. 12mo, pp. 212. Paris, 1881. From the editor.

Sur la distribution de l'énergie dans le spectre solaire normal. Par M. S.-P. Langley. 4to, pp. 3. Paris, 1881.

Anales del Ministerio de Fomento de la Republica Mexicana. Año de 1881. Tomo v, royal 8vo, pp. 696, maps. Mexico, 1881. From the Central Meteorological Observatory.

The Superficial Geology of British Columbia and adjacent regions. By George M. Dawson, D.Sc., F.G.S. 8vo, pp. 16. Extract from the Quarterly Journal of the Geological Society for May, 1881. London, 1881. From the author.

Sketch of the Geology of British Columbia. By George M. Dawson, D.Sc., F.G.S. 8vo, pp. 19, 2 maps. Extract from the Geological Magazine. London, May, 1881. From the author.

Proceedings of United States National Museum. 8vo, pp. 30. U. S. Gov. Printing Office. Washington, Dec., 1881. From the society.

The Formation of Gold Nuggets and Placer Deposits. By F. Eggleston, Ph.D. 8vo, pp. 14. From the Transactions of the American Institute of Mining Engineers. New York, 1881. From the author.

Trans. Amer. Inst. Mining Engineers. New York, 1881. From the secretary.

The available tonnage of the Bituminous Coal Fields of Pennsylvania. By H. M. Chance, M.D., Assist. Geological Survey Penna. 8vo, pp. 19, cuts. From Trans. Amer. Inst. Mining Engineers. New York, 1881. From the author.

Glacial Erosion. By Geo. H. Stone. 8vo, pp. 11. From the Proceedings of the Portland Society of Natural History. Portland, 1881. From the author.

The Bulletin of the Buffalo Society of Natural Sciences, Vol. IV, No. 2. 8vo, pp. 64, 3 plates. Buffalo, 1882. From the society.

The Brain of the Cat (*Felis domestica*). 1. Preliminary account of the gross anatomy. By Burt G. Wilder, M.D. 8vo, pp. 28, 4 plates. American Philosophical Society, read July 15, 1881. Philadelphia, 1881. From the author.

Some notes on American Land Shells, No. II. By A. G. Wetherby. 8vo, pp. 13. Journal of the Cincinnati Society of Natural History. Cincinnati, Dec., 1881. From the author.

The Journal of the Cincinnati Society of Natural History, Vol. IV, No. 4, Dec. 1881. From the society.

Contributions to North American Ethnology. Houses and House-life of the American Aborigines. By Lewis H. Morgan. 4to, bound, pp. 282, 55 plates, cuts and figures. Department of the Interior, U. S. Geol. and Geog. Surv. of Rocky Mountain region. J. W. Powell, in charge for the director. Washington, 1881.

Verhandlungen des naturforschenden Vereines in Brünn. XVII Band, 1879. Brünn, 1880. 8vo, pp. 231, 1 plate. From the society.

Boletim de Sociedade de Geographia de Lisboa. 2d serie, No. 3. Lisboa, 1880. 8vo, pp. 204. From the society.

Annales de la Société Entomologique de Belgique. Tome vingt-troisième. Bruxelles, 1880. 8vo, pp. 154, 1 plate. From the society.

Informe acerca de las Cepas de los Estados-Unidos de America consideradas bajo el punto de vista de los recursos que pueden prestarnos para la repoblacion de los viñedos destruidos por la filoxera; presentado á la exema. Diputacion de Barcelona. Por el Dr. D. Frederico Trémols y Borrell. Barcelona, 1881. 8vo, pp. 185.

Ministère de l'Agriculture et du Commerce. Direction de l'Agriculture. Commission supérieure du Phylloxera. Session de 1880. Compte rendu et pièces annexes. Lois, décrets et arrêtés relatifs au Phylloxera. Paris, 1881. 8vo, pp. 134, 1 map.

The Western Catalpa. A memoir of the Shavanon, or the Catalpa speciosa (Engelman). By Dr. Jno. A. Warder. From the Journal of the American Agricultural Association. 8vo, pp. 79-102. From the author.

On the Cynipidous galls of Florida. By William H. Ashmead. [Paper No. 1.] From the Monthly Proc. Ent. Sec. A. N. S., May, 1881, pp. ix-xx. From the author.

Forestry for Indiana. By Dr. J. A. Warder. From the Transactions of the Indiana Horticultural Society for 1880. 8vo, pp. 7. From the author.

An essay on Timber Planting in Ohio. By Dr. John A. Warder. Columbus, 1880. 8vo, pp. 9. From the author.

1. Remarkable change in the color of the hair from light blonde to black in a patient while under treatment by Pilocarpin. Report of a case of Pyelo-nephritis, with unusually prolonged anuria. 2. Case of membranous croup treated successfully by Pilocarpin. By D. W. Prentiss, A.M., M.D. Philadelphia, 1881. 8vo, pp. 15. From the author.

Address at the eighteenth session of the American Pomological Society held in Boston, Mass., Sept. 14, 15, 16, 1881. By Marshall P. Wilder, president of the society. Published by the society, 1881. From the author.

Entomologisk Tidskrift pa föranstaltande af entomologiska föreningen i Stockholm utgiven af Jacob Sp anberg. and 1, Häft 1 and 2. Stockholm, 1881. From the editor.

La Phylloxera en Suisse durant l'année. 1880. Rapport du département fédéral du commerce et de l'agriculture. Avec trois cartes. Bern, 1881, 8vo, pp. 99.

Note sur l'horticulture en Algérie. Par N. V.-Ch. Joly. From Journal de la Soc. d'Hortic., 3^e série, III, 1881, p. 261-271. Paris, 1881. From the author.

Bulletin de la Société centrale d'Agriculture et des comices agricoles du Département de l'Hérault. 67^{me} Sunée, Janvier. Août, 1880.

Synopsis of the Catocalæ of Illinois. By G. H. French. From curators report in the Seventh annual report of the principal to the Board of Trustees of the Southern Illinois Normal University. Carbondale, Illinois, 1881. 8vo, pp. 11. From the author.

Tenth Report of the State Entomologist on the noxious and beneficial Insects of the State of Illinois. Fifth annual report by Cyrus Thomas, Ph.D., State Entomologist. Springfield, 1881. 8vo, pp. 238. From the author.

Description of the preparatory stages of *Heliconia charitonia* Linn. By W. H. Edwards, Coalburgh, W. Va. From the Canadian Entomologist. Vol. XIII, August, 1881, pp. 158-162. From the author.

Department of the Interior. United States Geological and Geographical Survey, F. V. Hayden, U. S. Geologist-in-charge. Bull. of the U. S. Geol. and Geog. Surv. of the Terrs. Vol. vi. No. 1. Washington, February 11, 1881. 8vo, pp. 202, 4 plates. From the Interior Department.

Ministero d'Agricoltura, Industria e Commercio. Direzione dell' Agricoltura. Annali di Agricoltura, 1881, Num. 34. Relazione intorno ai lavori della R. Stazione di entomologia agraria di Firenze per gli anni 1877-81, per Ad. Targioni Tozzetti. Parte Scientifica. Firenze and Roma, 1881. 8vo, pp. 194. 3 tabb.

Transactions of the Massachusetts Horticultural Society for the year 1880, Parts 1 and 2. Boston, 1881. 8vo, pp. 316. From the society.

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GENERAL NOTES.

BOTANY.¹

GORDONIA PUBESCENS L'HER (*FRANKLINIA ALTAMAHA* MARSHALL).—This tree, so far as I can learn from the records, has not been found in the uncultivated state since 1790, when Dr. Moses Marshall saw it near Fort Barrington, on the Altamaha river, in Georgia.² It was first discovered by John Bartram in the course of his travels (as botanist to the king) through the Carolinas, Georgia and Florida in 1765. His son William, then only a lad,

¹ Edited by PROF. C. E. BESSEY, Ames, Iowa.

² See his letter to Sir Joseph Banks, p. 563, in Darlington's "Memorials of Bartram and Marshall."